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19 July 1955

MEMORANDUM FOR:

Special Devices Division

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THROUGH

: Assistant Chief/TSS/Research & Development

Assistant Chief/TSS/Technical Aids

BUBJECT

: Durial Packaging Study

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Memorandum for AC/TGS/RED from

Special Devices Division, dated 23 May 1955.

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TBS/BD has prepared the following answer to the above referenced memorandum. Material has been drawn from the files and experience of TSS/ED and also Ordnance Materials Section and Corps of Engineers Packaging Laboratory. A great deal of information was supplied by Office of Logistics/Supply Division and represents material currently stocked by the Agency.

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1. Sizes and costs of thermostatically controlled hot plastic dip tanks.

1.1 Office of Logistics/Supply Division reports it is currently using three sizes of tanks. All tanks are thereostatically controlled.

Model 318 is a small round tank. The opening is 8" wide by 12" deep, operates on 110 volts and holds about 7 lbs. of plastic. The cost is approximately \$185. Tanks of this type can be obtained in smaller or larger dismeter.

Model 3612 is the medium size tank. It has a dipping area 36" long and 12" wide and 12" deep, and operates on 220 volts single phase current. It is equipped with a circulating pump and the present area can be converted into part of the dipping area by removing the dam. The cost is approximately \$1,000 and has a capacity of approximately 100 lbs.

Model 6012 is the large tank for use at permanent installations and operates on 220 volts three phase current, has time clock, circulating pump, and has a capacity of approximately 600 lbs. of plastic. The cost is approximately \$3,000.

1.5

is currently using:

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Model No. 7BR20 7 x 20 x 12 inches deep 220 volt, single phase, 2,300 watts Made by Seal-Peel Corp.

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Cost: \$387.12

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3 of Logistics uses:

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Model No. 715 CL 7 x 15 x 12 inches deep 110 volt, single phase, 60 cycle Made by Scal-Peel Corp. Cost \$785.00

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1.5 TSS uses a small circular dip tank, and it is felt that this tank is the smallest practical tank for caching preparations.

Model SPR

35 Gal., 3000 watts, 220 volts 105 inches diameter x 10 inches deep \$144.85 for 220 V - 1 phase \$184.85 for 220 V - 3 phase

Made by Fidelity Chemical Products

Fidelity Chemical Products sakes a complete
line of circular and rectangular dip tanks

1.5 The following companies have been recommended by Ordnance for purchase of hot dip tanks:

D. C. Cooper Company, Chicago, Ill.
Walter Kidde Company, Belleville, N. J.
Electric Heater Co., Stratford, Conn.
Youngstown Miller Co., Sandusky, Ohio
Fidelity Chemical Products, Newark, N. J.

- 2. Cost and gauge of aluminum foil for conform wrapping.
- 2.1 Logistics/Supply Division states that they do not recommend the use of aluminum foil without reinforcement except on very special occasions. The material is very brittle and will puncture easily. It is not heat-sealable except by special equipment. When used, it is suggested that the normal household type be purchased locally. It comes in two thicknesses, I and I mile.
  - 2.2 Ordence uses Aluminum foil made to conform to MIL-A-1AGA. This Specification has a range of thicknesses. Ordence states that 4 mile is often used by them as a packaging material.
  - 2.3 Reynolds Metal Corp. states that it produces foil to conform to MIL-A-198A and recommends various thicknesses for different weights of objects. Type I, 3 mil, heavy duty, and Type II, 2 mils, medium heavy duty, seem must applicable to Agency needs. Reynolds suggests that trial wraps be made where possible to determine the proper thickness.

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2.4 Two grades of unterial can be purchased currently in local stores. Regular grade Reynolds Wrap or equivalent is 1 mil thick and comes in a 25 feet roll, 12 inches wide for \$.25 per roll. Heavy duty chunismum foil wrap is hig mils thick and comes in 25 feet rolls, 15 inches wide for \$.55 per roll. TBS/SD has found the heavy duty (hig mil) unterial to be successful in hot dip preparations and in general superior to 1 mil foil. TBS/SD also recommends that sample wraps be unde to determine the correct full same.

#### 3. Cost and weight on unbloached muslim:

3.1 Unblesched muslin 2.6 em. is carried in Supply Division stock in bulk form and in two sixes of seck form to fit rifles and pistols. Cost of the bulk is approximately \$.12 per yard.

3.2 The uses material they term "Stockinette" that confures either to Pederal Specifications, CCC-S-271, Sheeting, Cotton, Meached, Wide or CCC-S-291, Sheeting, Cotton, Unbloached, Wide. Both of those materials are used under MIL-P-116B, Preservation, Mathods Of.

### 4. Source, cost, and gauge of non-wicking cord:

- 4.1 There is carried in Supply Division stock, 12 thread mylem cord in 1 lb. comes at \$3.25 per come.
- 4.2 Ordnames recommends purchase of cord under MIL-5-12091 (680), String, Water Repellant, Non-Wicking (For Use With Strippable Protective Compounds).

### 5. Source and cost of hot dip plastics.

- 5.1 Plastics are carried in stock of Supply Division. They recommend that this material be ordered from stock and not bought on the open market as all plastics are not the same. Type II under JAB-C-1A9, Stock Humber 8030-005-1841, is clear and is used for normal long term storage. Type II with fungicide, Stock Humber 8030-005-1842, should be used on all caching projects in lieu of plain (emospt where the copper or all will effect the material being cached). At the present time there is no grosseless or dry plastic swallable on the market. The Scal Poel Company that developed this material is now in bankruptcy and is unable to furnish this material to us. Cost of type II clear is \$.56 per 1b. Cost of type II with fungicide is \$.94 per 1b.
- 5.2 Ordnance has supplied a Military Qualified Products List of Products Qualified Under Military Specification AN-C-149. Homefacturers and products acceptable to Ordnance

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as type II material are listed.

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5.3 A German material was tested by Ordnance and found acceptable under type II, JAN-C-149. It was Praeservant 22/VI made by Kamika Chemische Fabrik.

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23 May 1955

MEMORANDUM FOR: Assistant Chief/TSS/Research & De Through :	evelopment 25X1
SUBJECT : Burial Packaging Study	
It is requested that the following data be developed	ed by 1 July 1955:
1. Sizes and costs of thermostatically contidio tanks recommended by you.	colled hot plastic
2. Cost and gauge of aluminum foil for confe found Reynolds household foil to be an efficient a work. Source of foils requested, too.	orm wrapping. I weight for this
3. Cost and weight of unbleached muslin receiver wrapping. Source also.	mmended for con-
h. Source, cost, and gauge of non-wicking coor what have you, which will handle easily and no	ords, nylon, glass, break when knotted.
5. Source and cost of hot dip plastics recommended. Please include all types, i.e., oil exuding (like HR-45 of Seal Peel), less oil (HR-49 dry Seal Peel), and that treated to resist bacteria.	
6. Other items knowledgeable to you which would comprise a basic packaging unit.	
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